

# 图书管理信息系统

IS491 大型应用软件课程设计

2008-04-10

石君霄

5050369043

你的阳光技术频道

<http://www.65536.cn>

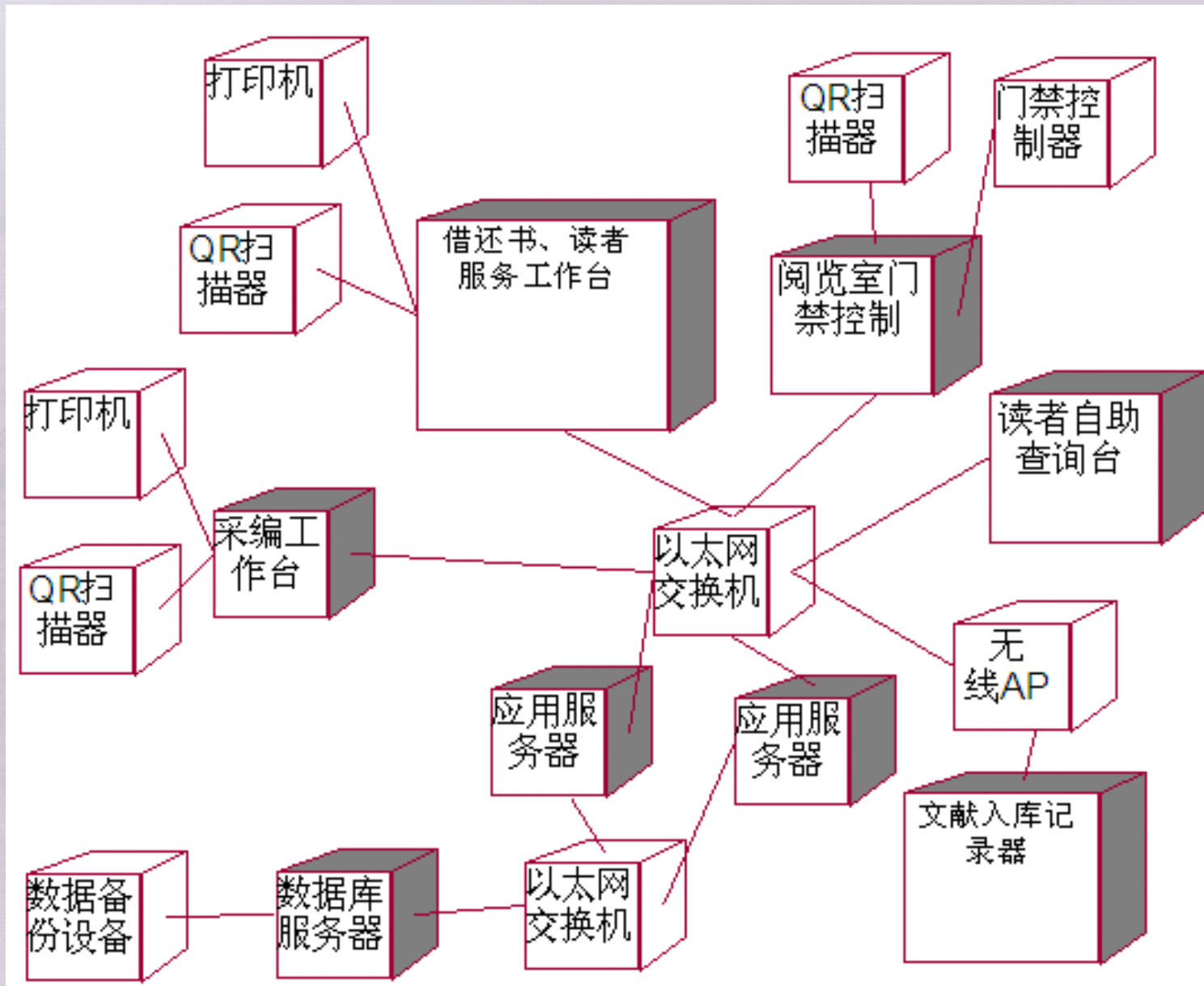
- What I have completed
  - Requirement analysis, done on 2008-03-30
  - Database design, done on 2008-04-06
- What I am doing now
  - Preliminary design, started on 2008-04-08



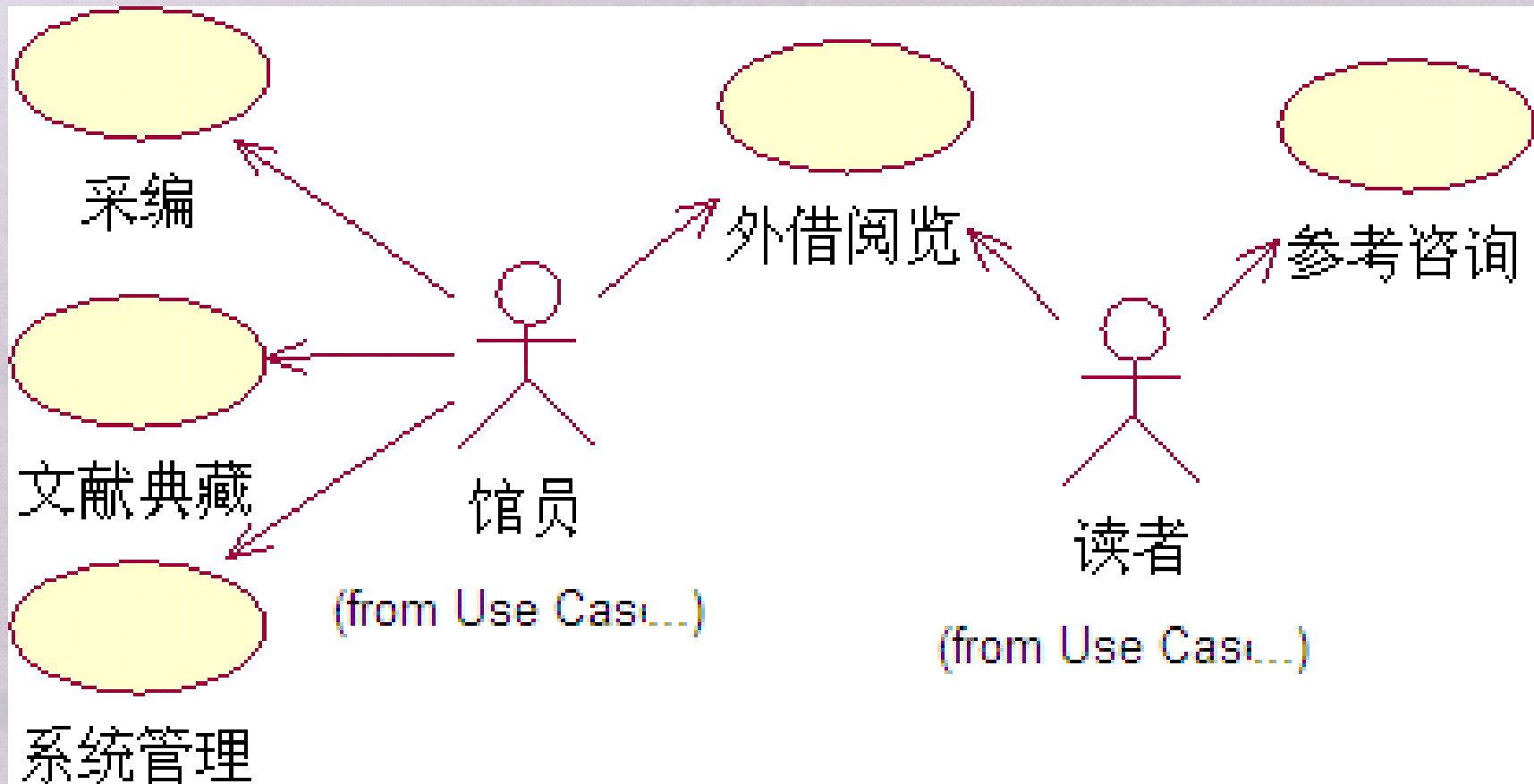
- [HELP] is the most important tool
  - 建模设计工具 Rose 和 PowerDesigner 都有丰富的帮助信息，按下 F1 就可以查看
  - 帮助中详细介绍了 UML、E-R 等建模设计语言的各类概念及图示，有助于对建模设计语言的准确理解
- Sad news: 'demo' is incorrect
  - 在教师 FTP 上提供的作业样本中，发现了许多不规范的图示，主要问题包括：
    - Use Case Diagram: wrong type of relationships
    - Sequence Diagram: incorrect selection of objects
    - .....
  - Everyone is a starter, I'm not always right, either.

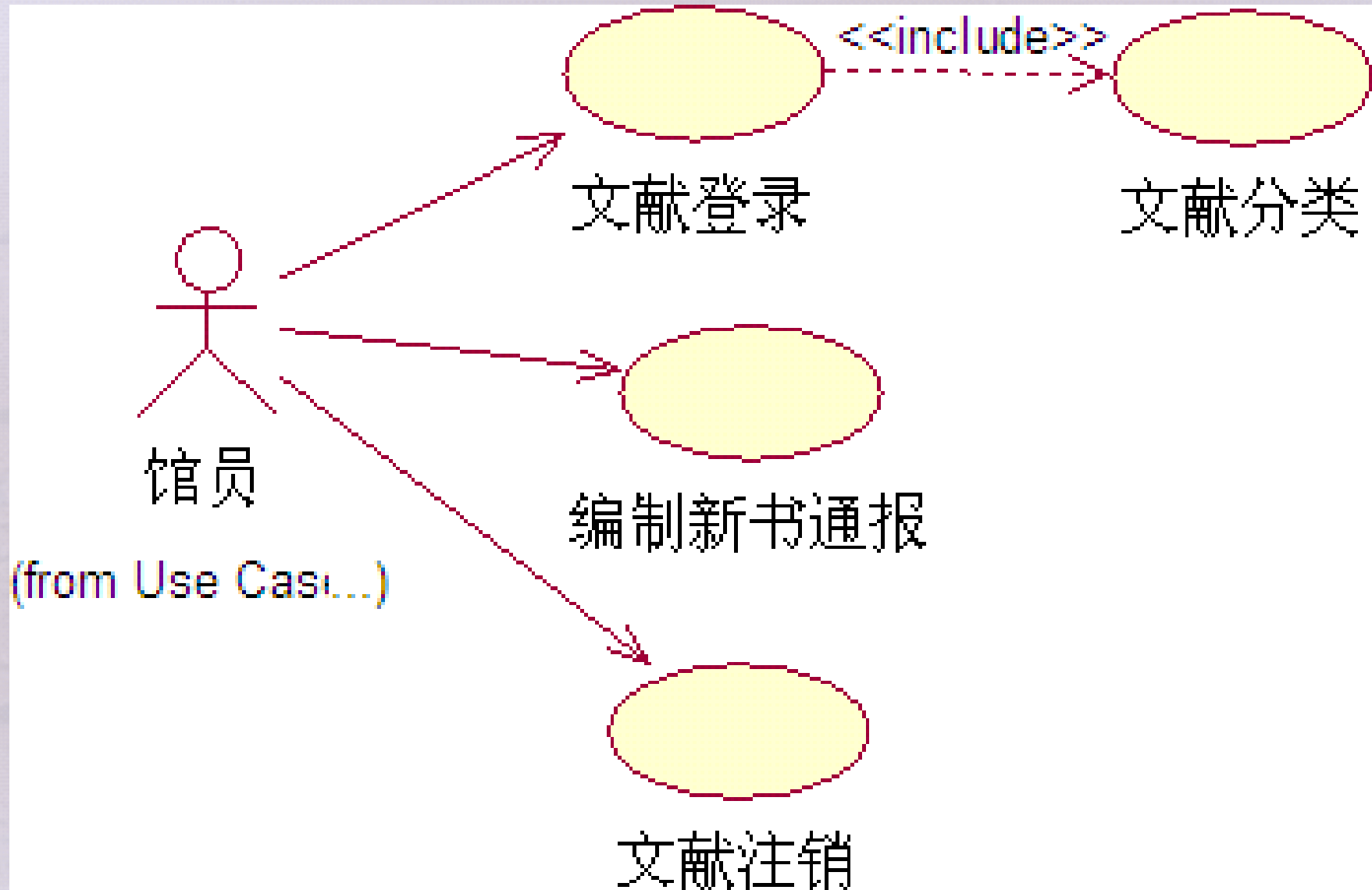


# Deployment Design

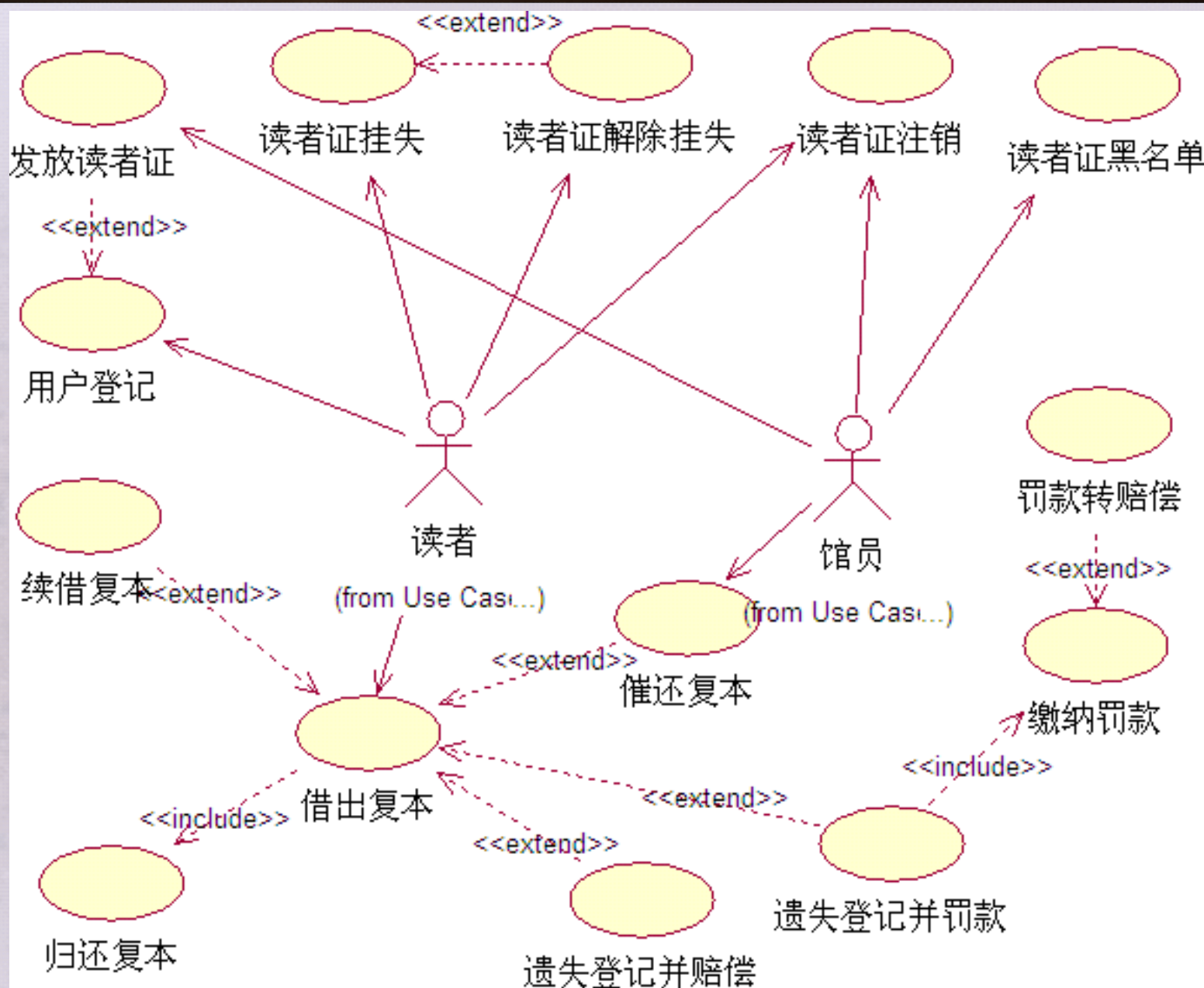


# Top-level Use Cases





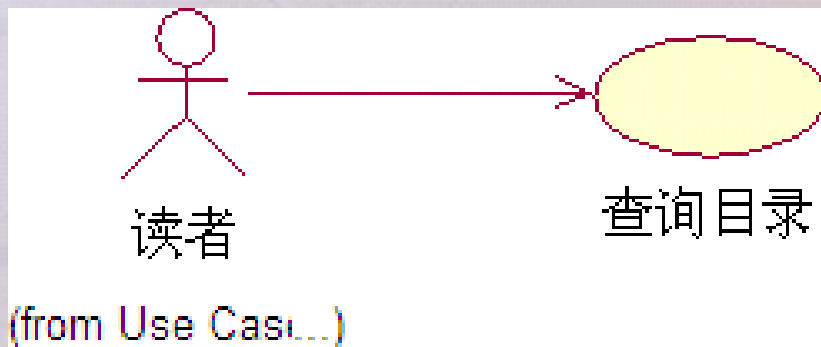




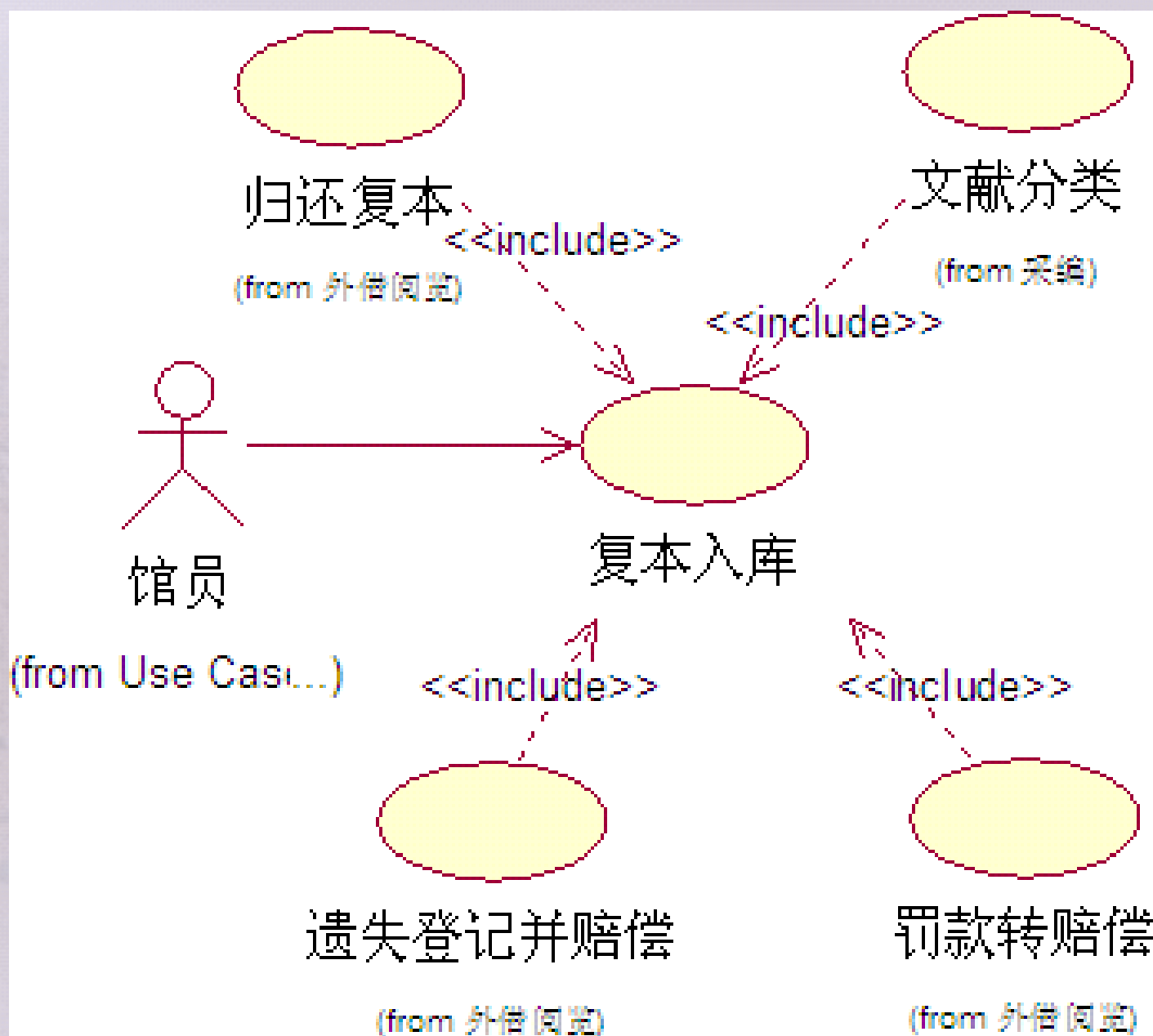


- 读者证相关功能
  - 用户登记，发放读者证
  - 读者证挂失，读者证解除挂失
  - 读者证注销
  - 读者证黑名单
- 文献复本相关功能
  - 借出复本，续借复本，催还复本，归还复本
- 遗失、赔偿、罚款功能
  - 遗失登记并赔偿
  - 遗失登记并罚款，缴纳罚款
  - 罚款转赔偿

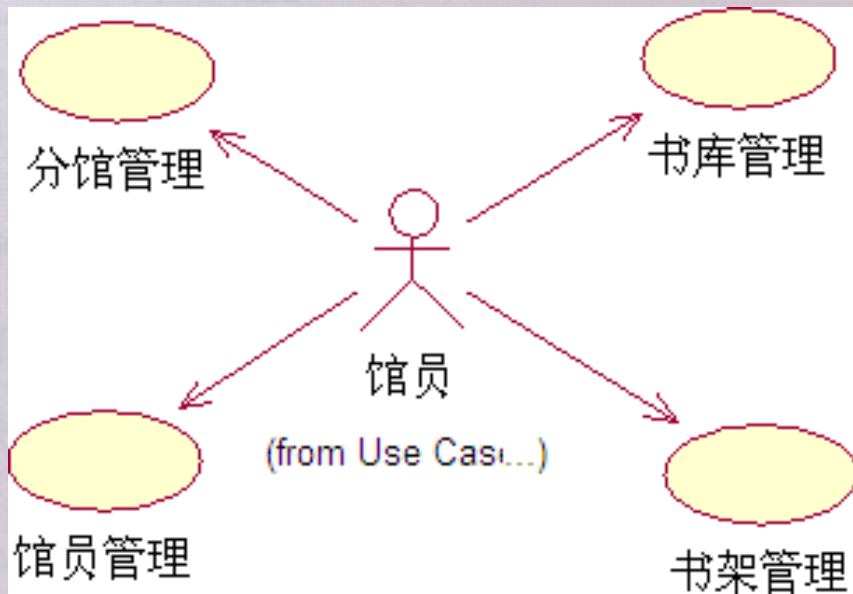




- 实际上，图书馆的参考咨询工作在很多情况下是需要馆员参与的，有很多工作可以开展。
- 这里只是一个简化的模型，在参考咨询部分仅仅定义了读者自主查询目录的功能。



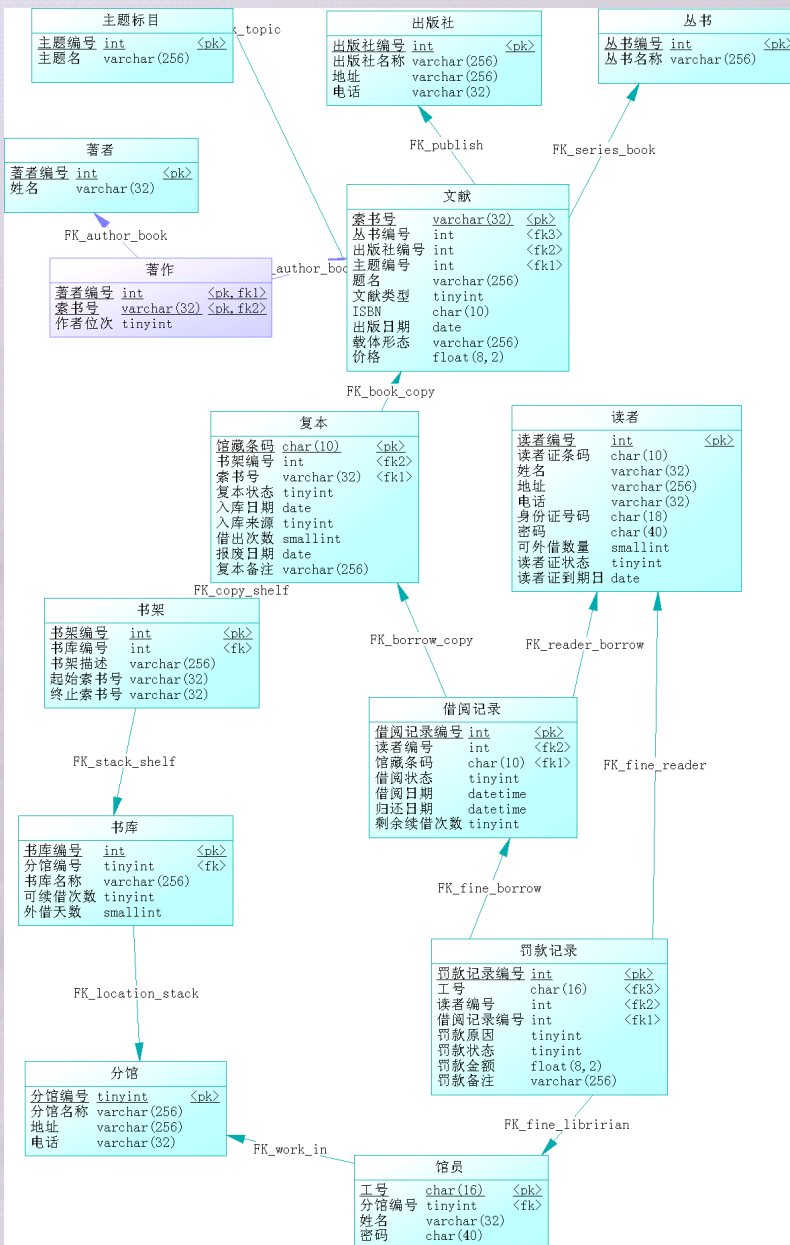




- Perform
  - Create
  - Modify
  - Delete
- on
  - Location
  - Stack
  - Shelf
  - Librarian



# Database Structure

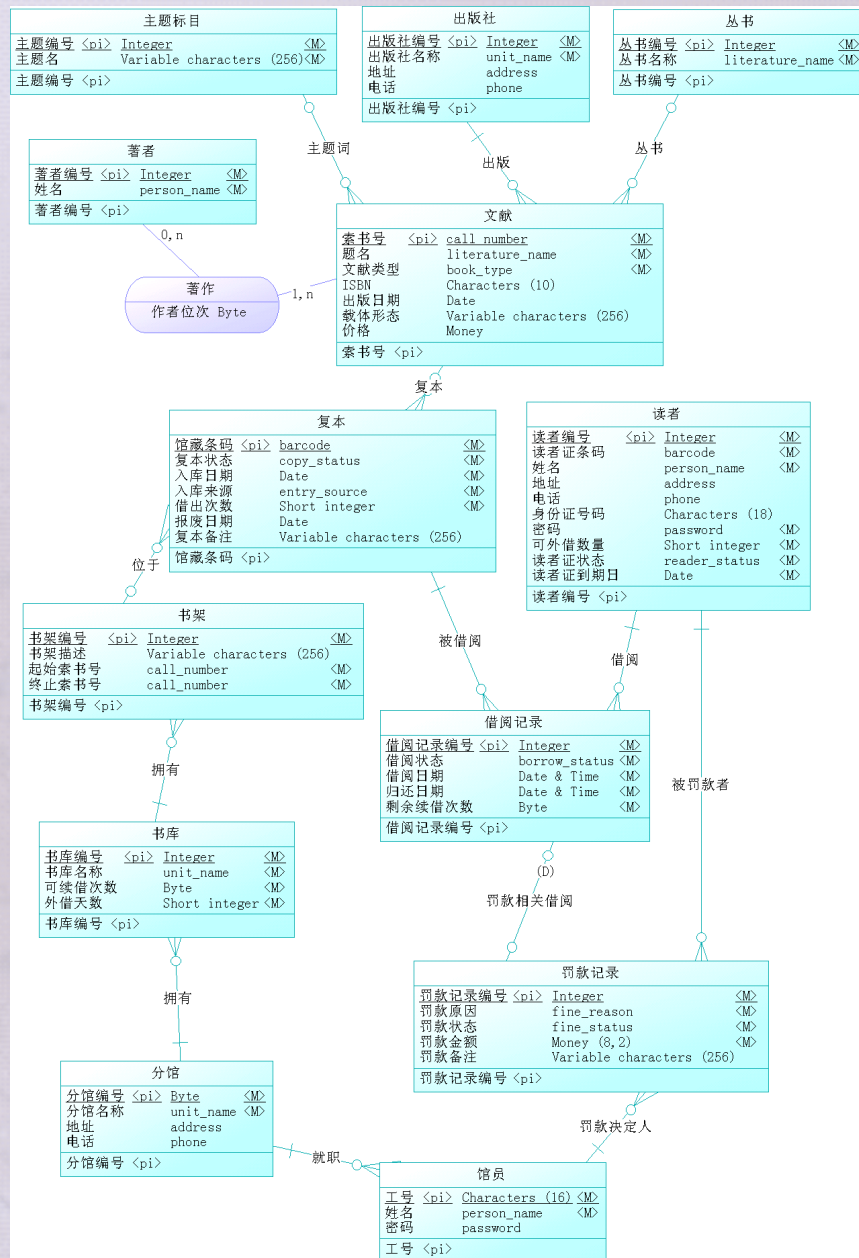


Most data of this system is stored in RDBMS

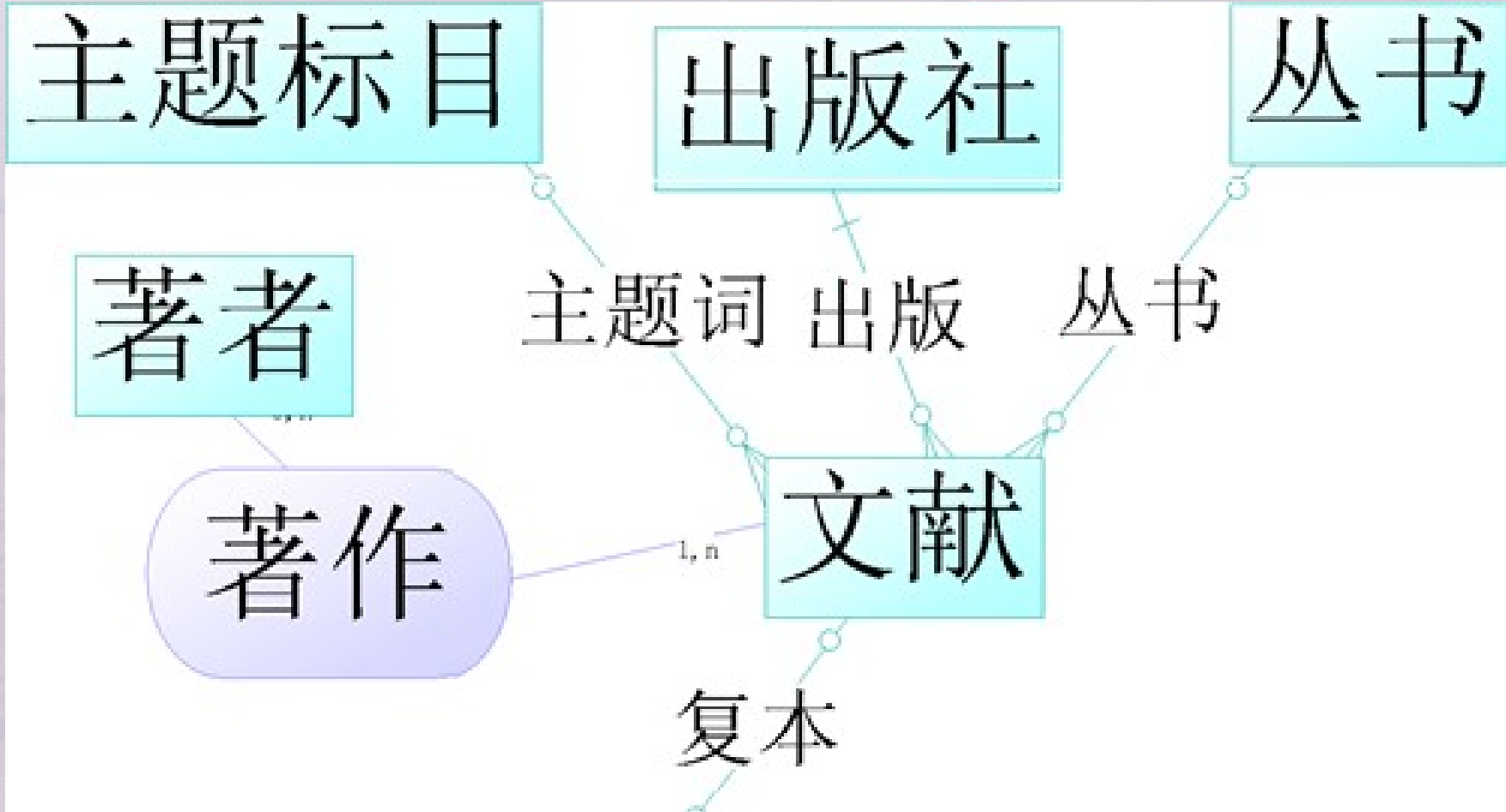
- to be specific, MySQL5, an open-source RDBMS
- MySQL Enterprise Server 5.0 is used, it's more stable than the free community version



# Conceptual Data Model

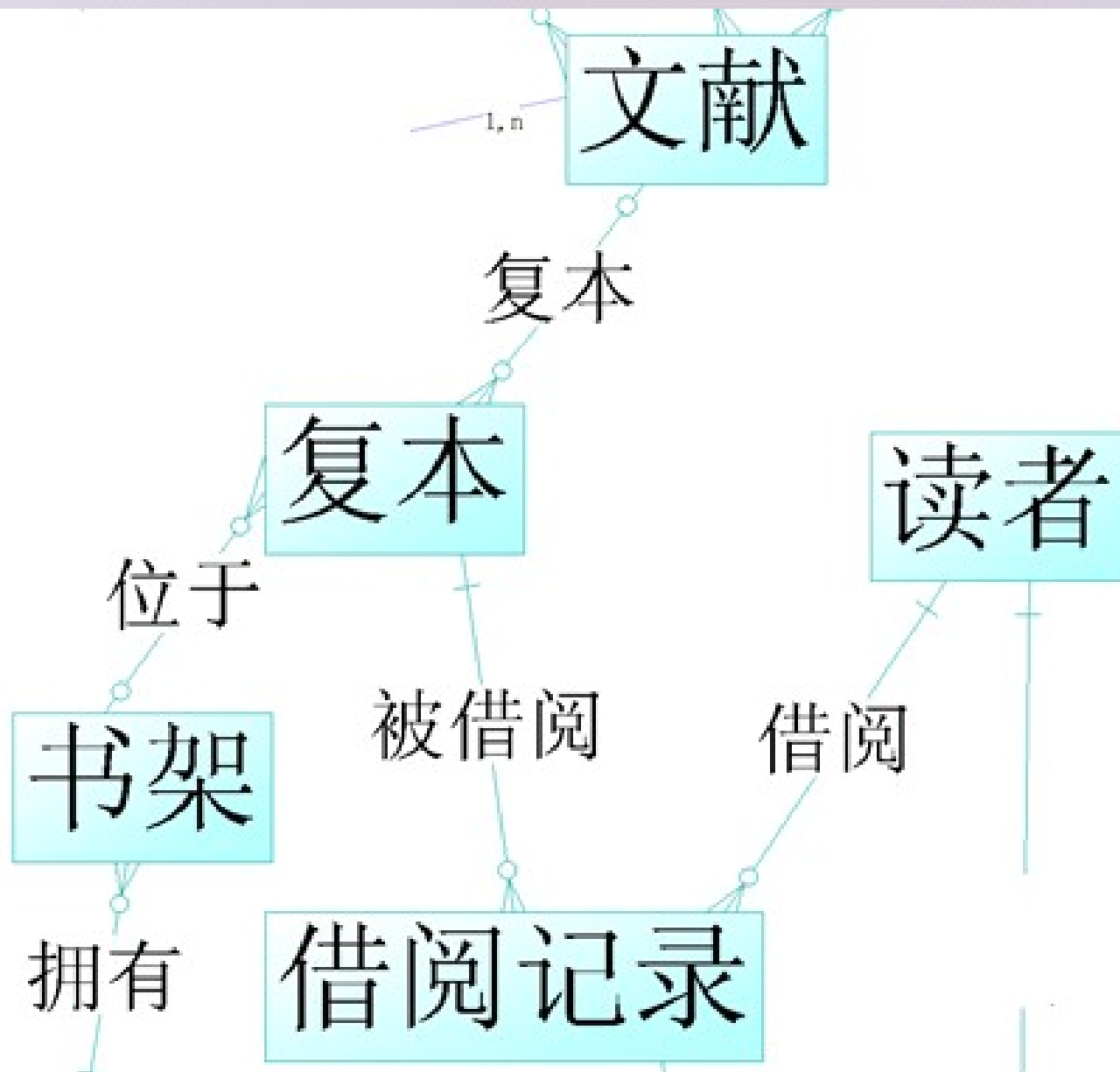


- The structure on the previous is automatically converted from this conceptual data model
- In this model, I applied both of
  - E-R Notation
  - Merise Notation

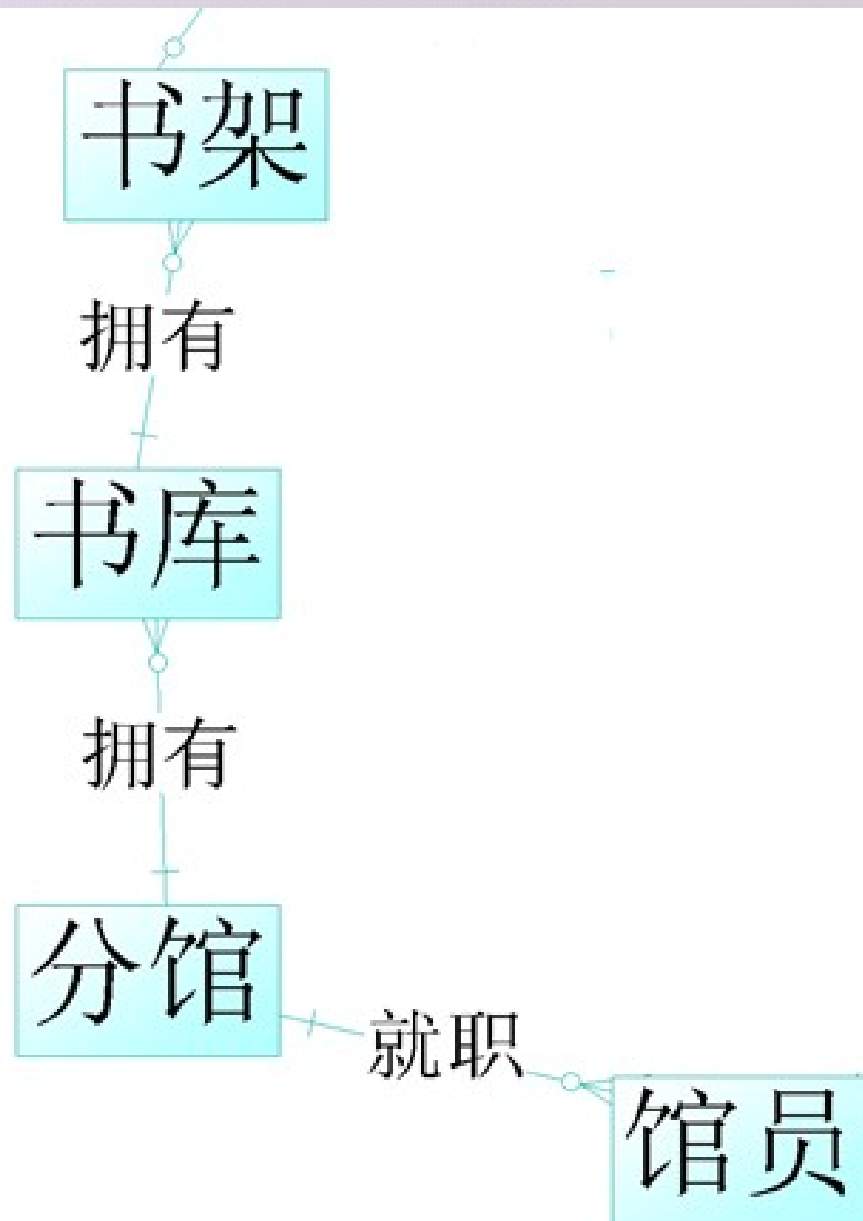




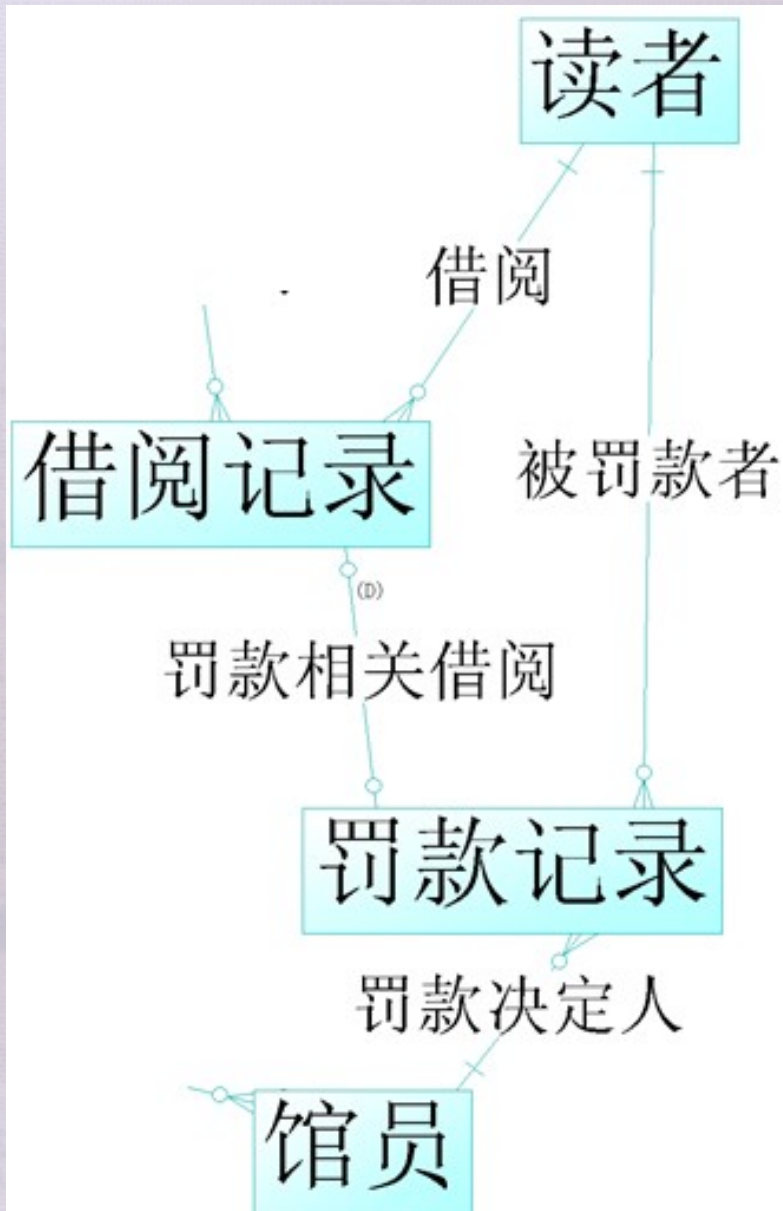
# CDM about readers & copies & borrowing



## CDM about locations & librarians







- Yes, there is a detailed version of those CDMs
- But the font-size is too small, you can't read it if I put them here, can you?



- Stay tuned for more about this project
- Welcome to <http://www.65536.cn>
- Any questions?
- 以下是广告——
  - 请关注 “2008 的五彩生活” 生活园区文化节  
<http://ourhome.sjtu.edu.cn>
  - 庆祝微软 Office Open XML 成为 ISO 标准  
特出售域名 [openxml.asia](http://openxml.asia)  
详情关注 <http://openxml.asia>